

ANNUAL COMPLIANCE REPORT OF MISSOURI PUBLIC WATER SYSTEMS



Missouri American Water Company Jefferson City



2020

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Summary

In Missouri, the Public Drinking Water Branch of the Missouri Department of Natural Resources is responsible for implementing the Safe Drinking Water Act to assist the state's 2,735 public water systems in providing safe drinking water. The Department establishes regulatory limits and monitors for 91 different chemical and microbiological contaminants in public water supplies. This report provides information on how well Missouri's public water systems are meeting these standards.

This report is the 25th Annual Compliance Report produced by the Department. It contains compliance statistics for Missouri's public water systems for calendar year 2020. The report shows that 98.4% of Missouri's population that is served by a community public water system, received water that met all health-based standards during this period, compared to 2019, when the percentage was 90.1%.

The Department prepares this report annually to comply with statutory obligations of the federal Safe Drinking Water Act, and to provide the public with a better understanding of the importance of safe and abundant drinking water. The Department will provide this report to the U.S. Environmental Protection Agency, who will use the information to prepare a national report on the performance of the nation's public drinking water systems.

What is a Public Water System?

A public water system provides drinking water through piping or other constructed conveyances for human consumption to at least 15 service connections, or serves an average of at least 25 people for at least 60 days each year.

There are three types of public water systems:

1. **Community systems** include towns, water districts, subdivisions, mobile home parks and residential facilities, such as nursing homes or prisons.
2. **Nontransient noncommunity systems** regularly serve the same 25 people per day, at least sixmonths per year. Examples include schools and factories.
3. **Transient noncommunity systems** serve at least 25 people per day, at least 60 days of the year. Examples include restaurants, resorts and campgrounds. These smaller systems are typically located in rural areas where it is not feasible to connect to a municipal water supply or a water district.

The Department's requirements for construction, operation, and monitoring for systems vary based on their type, population, and water source. For systems that are not public water systems, such as homes served by private wells, local and county health agencies and the Missouri Department of Health, and Senior Services facilitate water testing. Data for these private systems are not included in this report.

The Missouri Public Water Universe

In 2020, there were 2,735 active public water systems in Missouri. Of this total, 1,423 were community, 221 were nontransient noncommunity and 1,091 were transient noncommunity systems.

Missouri's community water systems served more than 5 million residents. The Missouri River remains the largest source of drinking water for Missourians. The river's abundant water supply and its proximity to the state's major population centers make it a valuable resource to the communities that draw from it.

Groundwater is the next most common source of drinking water for community water supplies. In southern Missouri, high-quality groundwater is easy to obtain and typically requires very little treatment for use as drinking water. Public water systems utilizing groundwater as their source serve approximately 42.5% of Missourians who receive their water from a public water system.

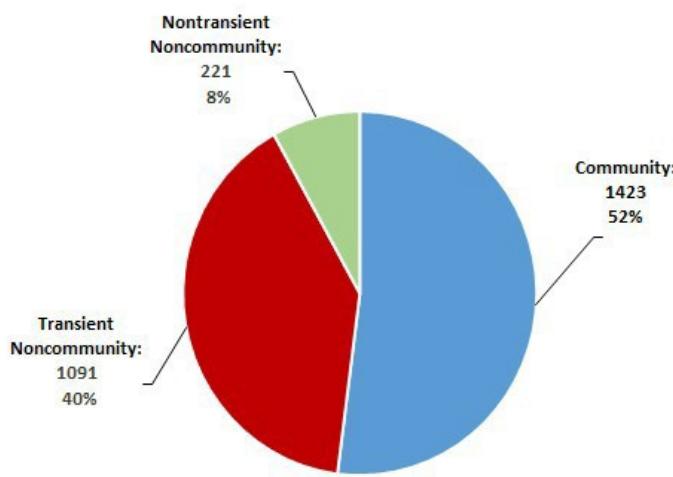
All other public water system customers receive their water from community systems that draw from other types of surface water sources. Particularly prevalent in the northern part of Missouri, these sources include rivers and reservoirs.

Analysis of Compliance

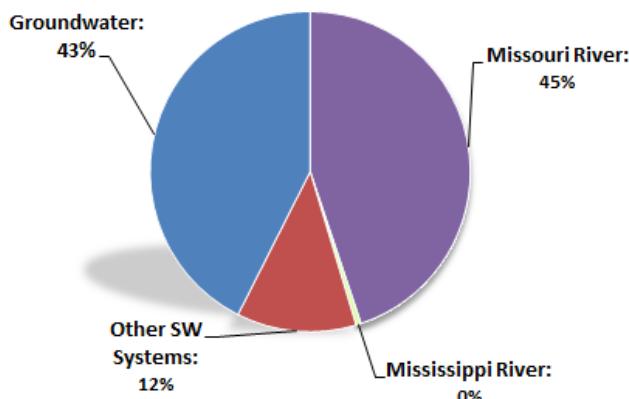
Missouri requires testing for 91 different regulated chemicals and microbiological contaminants on a regular schedule. The Summary of Violations Table in this report counts individual violations by contaminant type. These counts may include multiple violations for the same system, depending on the monitoring schedule for the particular contaminant.

Appendices A and B list specific systems by county that have had violations of different drinking water rules. These rules include the Revised Total Coliform Rule, Radionuclide Rule, Stage 2 Disinfectants and Disinfection Byproduct Rule and the Surface Water Treatment Rule.

Public Water Systems by Type

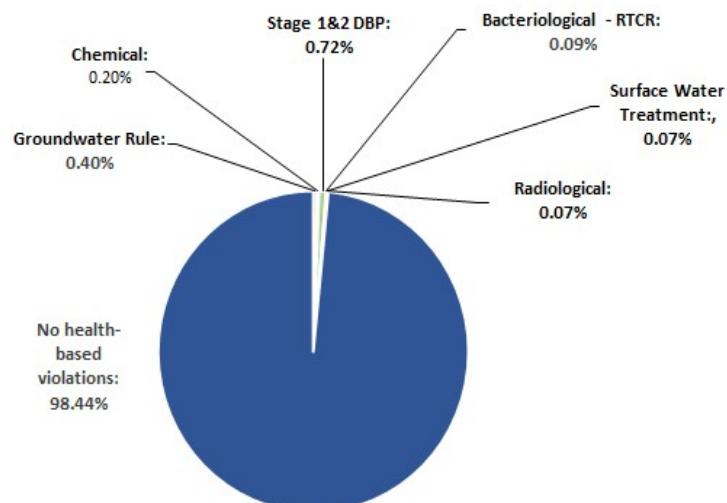


Source of Water (Percent of Population Served by Public Water Systems)



*Population served by alluvial wells are included in the groundwater percentage

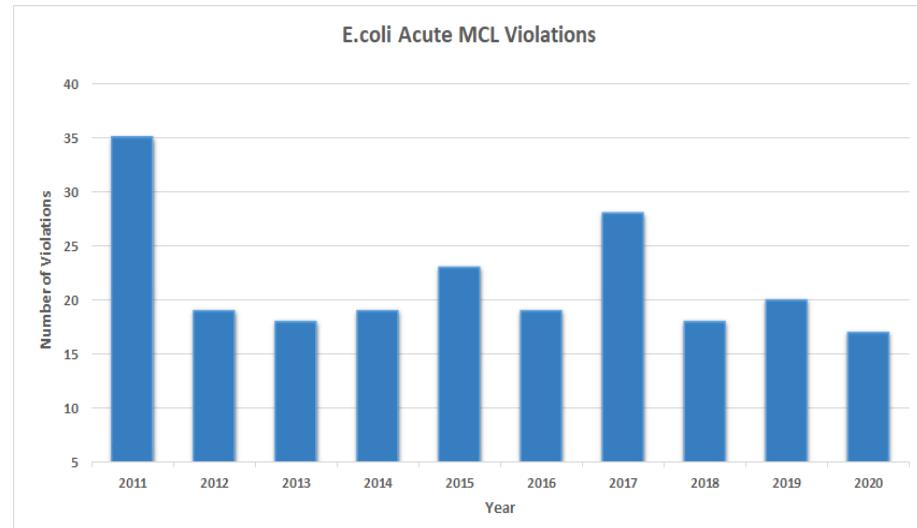
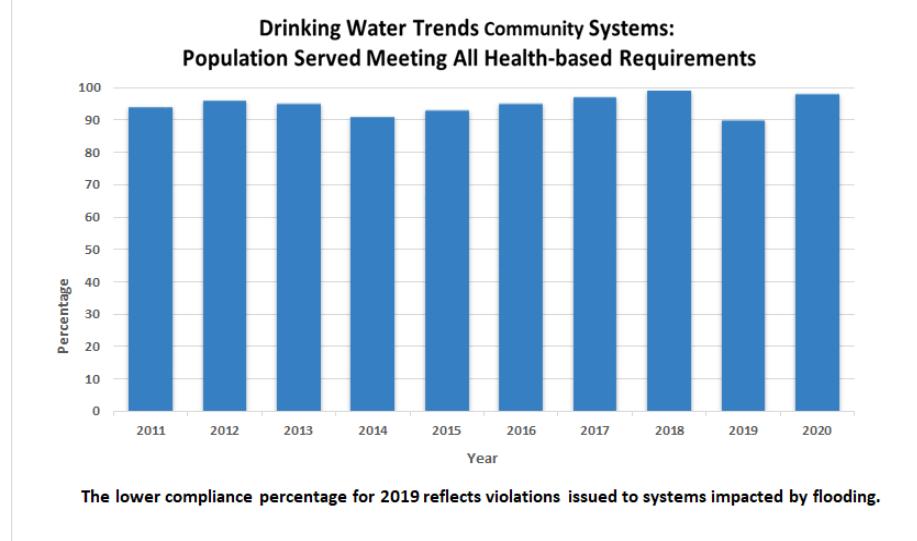
Percent Population of Community Water Systems in Violation of Health-Based Standards



Maximum Contaminant Level (MCL) and treatment technique violations represent the most significant impact on public health. In 2020, 98.4% of Missouri public water supply customers had water that met all MCL and treatment technique requirements. The Drinking Water Trends Community Systems Chart shows the 10 year trend for this measure.

Because the above measure counts all MCL and treatment technique violations throughout the year with no consideration given to the duration of the violation, EPA and the states developed an additional compliance measure called “person-months.” This measure represents the population served by community water systems that meet health-based standards on a monthly basis. Missouri achieved 99.53% compliance with this measure in 2020.

EPA calculates many of the MCL and treatment-technique violations- based on chronic (long- term, regular, and consistent) exposure. EPA’s MCL based on acute (short- term) exposure can include turbidity exceedances or E.coli detects. In 2020, the Department issued 17 violations for acute contaminants to 15 public water systems, equal to 0.55% of all Missouri systems. All of these violations were associated with the detection of E.coli.



How to Find More Information on Your Water System

Community water systems must distribute Consumer Confidence Reports annually to water customers. These reports provide detailed information about sources and levels of contaminants in the drinking water and must list all violations of state and federal requirements for the calendar year. In 2020, 88% of Missouri's community water systems distributed their Consumer Confidence Reports properly. You may obtain a copy of the Consumer Confidence Report for your public water system by contacting your service provider or the Department's Consumer Confidence Report website at dnr.mo.gov/CCR/index.html. The Department also maintains the Drinking Water Watch website at dnr.mo.gov/DWW/, which provides additional information on all of Missouri's public drinking water systems, including information on inventories, sample results, compliance activities and water quality.

For More Information

Information about Missouri's public water systems can be obtained by writing to the Missouri Department of Natural Resources, Water Protection Program, Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102-0176 or calling 800-361-4827 or 573-751-0124.

Information is also available online at dnr.mo.gov/env/wpp/dw-index.html.



River intake pump station, Missouri River

Explanation of Terms in Violations Tables

The following descriptions apply to the violations table.

Filtered Systems: Water systems that have installed filtration treatment [10 CSR 60-4.050].

Ground Water Rule: A rule (10 CSR 60-4.025) that requires monitoring of groundwater sources for E. coli contamination. It relies on four strategies to address this risk: periodic sanitary surveys, triggered source water monitoring in the case of a positive sample, corrective action for a system found to have a significant deficiency or source water E. coli contamination, and compliance monitoring to ensure the treatment technology is reliable.

Inorganic Contaminants: Non-carbon-based compounds such as metals, fluoride and nitrates. These contaminants are naturally-occurring in some water, but can also enter water through human activities [10 CSR 60-4.030]

Lead and Copper Rule: A rule (10 CSR 60, Chapter 15) to address lead and copper corrosion, which poses health risks when ingested at any level, and can enter drinking water from household pipes and plumbing fixtures. Violations are reported for: failure to monitor, failure to install optimal corrosion control treatment or a source water treatment system that would reduce lead and copper levels in water at the tap, failure to replace lead service lines on the schedule required by the regulation and failure to provide required public education about reducing or avoiding lead intake from drinking water.

Maximum Contaminant Level (MCL): The highest amount of a contaminant allowed in drinking water. MCLs ensure drinking water does not pose a health risk and are defined in milligrams per liter (parts per million) unless otherwise specified.

Monitoring: Sampling and analytical testing specified by the Department, including testing methods, and frequency [10 CSR 60-4.010]. Failure to test and failure to report results timely are significant monitoring violations.

Organic Contaminants: Carbon-based compounds, such as industrial solvents and pesticides. These contaminants generally enter water through runoff from cropland or discharge from factories [10CSR 60- 4.040 and 4.100].

Radionuclides: Radioactive particles that occur naturally in water or result from human activity. Safe drinking water regulations set MCLs on five types of radionuclides: radium-226, radium-228, uranium, gross alpha and beta particle/photon radioactivity [10 CSR 60-4.060].

Surface Water Treatment Rule: A series of rules promulgated from 1989-2009 that establish criteria under which water systems supplied by surface water sources, or groundwater sources under the direct influence of surface water, must filter and disinfect their water (Surface Water Treatment Rule, Interim Enhanced Surface Water Treatment Rule, Long Term1 Enhanced Surface Water Treatment Rule, Long Term2 Enhanced Surface Water Treatment Rule) [10 CSR60-4.050and60-4.052].

Treatment Techniques: Enforceable procedures or levels of technological performance that public water systems must follow to ensure control of contaminants for which no MCL is established. For example, EPA established treatment techniques for viruses, bacteria, turbidity, and failure to correct a significant deficiency.

Violation: A failure to meet any state or federal drinking water regulation.

Organic Contaminants: Jan. 1, 2020 - Dec. 31, 2020

	MCL (mg/L)	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems Violations
Organic Contaminants							
1,1,1-Trichloroethane	0.2	0	.0			1	1
1,1,2-Trichloroethane	0.005	0	0			1	1
1,1-Dichloroethylene	0.007	0	0			1	1
1,2,4-Trichlorobenzene	0.07	0	0			1	1
1,2-DBCP	0.0002	0	0			0	0
1,2-Dichloroethane	0.005	0	0			1	1
1,2-Dichloropropane	0.005	0	0			1	1
2,3,7,8-T CDD (Dioxin)	3x10-8	0	0			0	0
2,4,5-TP	0.05	0	0			0	0
2,4-D	0.07	0	0			0	0
Acrylamide				0	0		
Alachlor	0.002	0	0			0	0
Aldicarb	0.003	0	0			0	0
Aldicarb Sulfone	0.002	0	0			0	0
Aldicarb Sufoxide	0.004	0	0			0	0
Atrazine	0.003	0	0			0	0
Benzene	0.005	0	0			1	1
Benzo[a]pyrene	0.0002	0	0			0	0
BHC Gamma	0.0002	0	0			0	0
Carbofuran	0.04	0	0			0	0
Carbon tetrachloride	0.005	0	0			1	1
Chlorobenzene	0.1	0	0			1	1
Chlordane	0.002	0	0			0	0
cis-1,2-Dichloroethylene	0.07	0	0			1	1
Dalapon	0.2	0	0			0	0
Di(2-ethylhexyl)adipate	0.4	0	0			0	0
Di(2-ethylhexyl)phthalate	0.006	0	0			0	0
Dichloromethane	0.005	0	0			1	1
Dinoseb	0.007	0	0			0	0
Diquat	0.02	0	0			0	0
Endothall	0.1	0	0			0	0
Endrin	0.002	0	0			0	0
Epichlorohydrin				0	0		
Ethylbenzene	0.7	0	0			1	1
Ethylene dibromide	0.00005	0	0			0	0
Glyphosate	0.7	0	0			0	0
Heptachlor	0.0004	0	0			0	0

¹Values are in milligrams per liter (mg/L), unless otherwise specified

*Shaded areas indicate a Violations is not applicable in this category

Organic Contaminants: Jan. 1, 2020 - Dec. 31, 2020

	MCL (mg/L)	MCL		Treatment Technique		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Heptachlor epoxide	0.0002	0	0			0	0
Hexachlorobenzene	0.05	0	0			0	0
Hexachlorobenzene	0.001	0	0			0	0
Hexachlorocyclopentadiene	0.05	0	0			0	0
Lasso	0.05	0	0			0	0
Lindane	0.0002	0	0			0	0
Methoxychlor	0.04	0	0			0	0
Monochlorobenzene	0.1	0	0			0	0
o-Dichlorobenzene	0.6	0	0			1	1
Oxamyl (Vydate)	0.2	0	0			0	0
Para-Dichlorobenzene	0.075	0	0			1	1
Pentachlorophenol	0.001	0	0			0	0
Picloram	0.5	0	0			0	0
Simazine	0.004	0	0			0	0
Styrene	0.1	0	0			1	1
Tetrachloroethylene	0.005	0	0			1	1
Toluene	1	0	0			1	1
Total PCB	0.0005	0	0			0	0
Toxaphene	0.003	0	0			0	0
Trans-1,2-Dichloroethylene	0.1	0	0			1	1
Trichloroethylene	0.005	0	0			1	1
Vinyl chloride	0.002	0	0			1	1
Xylenes (total)	10	0	0			1	1

Disinfection Byproducts Rule: Jan. 1, 2020 - Dec. 31, 2020

	MCL	MCL		Treatment Techniques		Significant Monitoring/Reporting	
		No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Total trihalomethanes	0.80	33	16			21	20
Haloacetic acids	0.60	6	3			21	20
Disinfection byproducts		39	16	0	0	42	20
Total Organic Compounds				5	5		
Insufficient or Non-certified Operator				0	0		

Inorganic Contaminants: Jan. 1, 2020 - Dec. 31, 2020

		MCL		Treatment Technique		Significant Monitoring/ Reporting	
	MCL (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of System Violations
Inorganic Contaminants							
Antimony	0.006	0	0	0	0	1	1
Arsenic	0.010	0	0	0	0	1	1
Asbestos	7 million fibers/L	0	0	0	0	0	0
Barium	2	0	0	0	0	1	1
Beryllium	0.004	0	0	0	0	1	1
Cadmium	0.005	0	0	0	0	1	1
Chromium	0.1	0	0	0	0	1	1
Cyanide (as free cyanide)	0.2	0	0	0	0	0	0
Fluoride	4.0	3	2	0	0	1	1
Mercury	0.002	0	0	0	0	1	1
Nitrate	10 (as nitrogen)	0	0	0	0	0	0
Nitrite	1 (as nitrogen)	0	0	0	0	0	0
Selenium	0.05	0	0	0	0	1	1
Thallium	0.002	0	0	0	0	1	1
Total nitrate and nitrite	10 (as nitrogen)	0	0	0	0	26	26

Radiological Contaminants: Jan. 1, 2020 - Dec. 31, 2020

		MCL		Treatment Technique		Significant Monitoring /Reporting	
	MCL (pCi/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Radiological Contaminants							
Gross Alpha	15 pCi/L	8	3			0	0
Radium-226 and radium-228	5 pCi/L	20	5			0	0
Gross beta	4 mrem/yr	0	0			0	0
Subtotal		28	9			0	0

Microbiological Contaminants: Jan. 1, 2020 – Dec. 31, 2020

		MCL		Treatment Technique		Significant Monitoring /Reporting	
	MCL Presence/Absence	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Revised Total Coliform Rule							
Acute MCL Violations	Presence	17	15				
Level 1 Assessment Violations				8	8		
Level 2 Assessment Violations				1	1		
Treatment Technique, Other				4	2		
Major Routine						547	327
Minor Routine						42	38
Reporting/Notification						7	7
Subtotal		17	15	13	11	596	346

Some systems may have violations in multiple categories.

Surface Water Treatment Rule: Jan. 1, 2020 – Dec. 31, 2020

	MCL	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Surface Water Treatment							
Filtered Systems							
Monitoring, routine/repeat						1	1
Treatment Techniques				15	4		
Unfiltered Systems							
Monitoring, routine/repeat							
Failure to Filter							
Subtotal				3	3	1	1

Lead and Copper Rule: Jan. 1, 2020 – Dec. 31, 2020

	MCL	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Lead and Copper Rule							
Initial lead and copper tap monitoring and reporting						0	0
Follow-up or routine lead and copper tap monitoring and reporting						4	4
Treatment Installation							
Public education				0	0	4	4
Subtotal				0	0	8	8

Public Notification: Jan. 1, 2020 – Dec. 31, 2020

	MCL	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Public Notification						177	119
Consumer Confidence Reports ¹						175	175
Subtotal						352	280

¹ Violations for failure to produce and distribute the 2019 Consumer Confidence Report in 2020.

Groundwater Rule: Jan. 1, 2020 – Dec. 31, 2020

		MCL		Treatment Technique		Significant Monitoring /Reporting	
	MCL	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Groundwater Rule							
Failure to treat				14	10		
Failure to address contamination				0	0		
Failure to address deficiency				8	8		
Public notice						0	0
Sanitary Survey						8	8
Major routine and follow up monitoring						87	59
Subtotal				22	18	95	66

Appendix A: Health Based Compliance

I. Revised Total Coliform Rule - Acute MCL Violations

The following systems were under boil water orders due to acute MCL violations for E. coli bacteria for the months listed

County	ID#	SystemName	Month(s)	Issue	Rescind
BARRY	MO5010730	SELIGMAN PWS	September	9/29/2020	10/8/2020
BENTON	MO3190902	HEAD WATERS MOTEL	June	6/10/2020	11/2/2020
BENTON	MO3190902	HEAD WATERS MOTEL	August	8/14/2020	11/2/2020
BENTON	MO3210904	LAKE HILLS MOTEL	June	7/1/2020	7/20/2020
CAMDEN	MO3079511	CAMDEN PLACE APARTMENTS	October	10/23/2020	11/5/2020
CAMDEN	MO3190757	CEDAR GREEN LAND ACQUISITION LLC	September	9/22/2020	9/26/2020
CAMDEN	MO5293132	JUST A LITTLE STORE	September	10/1/2020	10/9/2020
CAMDEN	MO3212445	MARINERS PIER 31	September	9/16/2020	9/25/2020
DENT	MO4183208	ROYAL OAK ENTERPRISES SALEM	August	8/12/2020	9/25/2020
GREENE	MO5183286	HTI ROGERSVILLE	June	6/10/2020	6/26/2020
HICKORY	MO5242917	LOEHR'S CAMPGROUND AND RESORT LLC	April	4/30/2020	5/18/2020
HICKORY	MO5242917	LOEHR'S CAMPGROUND AND RESORT LLC	August	8/21/2020	9/15/2020
LINCOLN	MO6283208	COASTAL CARRIERS	June	6/24/2020	7/16/2020
MORGAN	MO3190044	CAMP SABRA	July	7/3/2020	7/10/2020
NEWTON	MO5242919	BLUE SKY RV PARK	May	5/5/2020	6/2/2020
SALINE	MO2010520	MIAMI PWS	July	8/5/2020	8/21/2020
STONE	MO5036205	VILLAGE OF MC CORD BEND	August	8/24/2020	9/2/2020

Appendix A - Health Based Compliance

II. Revised Total Coliform Rule - Level 1 and Level 2 Assessment

Since the transition to the Revised Total Coliform Rule April 1, 2016, the following systems have exceeded the coliform treatment technique trigger - triggering an assessment on more than one occasion in 2020. These assessments are triggered for the following reasons: systems collecting forty (40) or more samples per month exceeding 5.0% total-coliform positive samples for the month, systems collecting fewer than forty (40) samples per month having two (2) or more coliform-positive samples for the month, failing to collect every required repeat sample after any coliform-positive sample, or incurring an E. coli MCL violation.

County	ID#	System Name	Assessments
BARRY	MO5261623	COUNTRY VILLAGE MHP	2
BENTON	MO1293111	BENT TREE HARBOR	2
BENTON	MO3036133	POM OSA HEIGHT SUBD	2
BENTON	MO3190902	HEAD WATERS MOTEL	2
BENTON	MO3210326	HILLTOP BAR B Q	2
BENTON	MO3210904	LAKE HILLS MOTEL	2
BOLLINGER	MO4243202	WHIPPOORWILL LAKE FAMILY CAMPGROUND	2
CAMDEN	MO3024090	CAMDEN COUNTY PWSD 1	2
CAMDEN	MO3281045	ETHNOS360 INC	2
CAMDEN	MO5253022	MAPLE HILL SUBDIVISION	2
CAMDEN	MO5293132	JUST A LITTLE STORE	3
CEDAR	MO5172802	AGAPE BOARDING SCHOOL	2
CHRISTIAN	MO5036054	SUNSET HEIGHTS 2ND ADDITION	2
DALLAS	MO5282882	FRATERNAL ORDER OF THE BEARS 99	2
GREENE	MO5273285	HARMONY BAPTIST CHURCH	2
HICKORY	MO5242917	LOEHR'S CAMPGROUND AND RESORT LLC	3
HICKORY	MO5251481	WINDMILL POINT	2

LINCOLN	MO6283208	COASTAL CARRIERS	3
MILLER	MO3010240	ELDON PWS	2
MILLER	MO3010441	LAKE OZARK PWS	3
MILLER	MO3302314	BEACH CLUB CONDO ASSN	2
MORGAN	MO3031358	MORGAN COUNTY PWSD # 2	3
MORGAN	MO3248267	CREEKSIDE RV PARK	2
MORGAN	MO5192693	AQUA VITAE ESTATES	2
NEWTON	MO5292861	GET N SPLIT	3
PETTIS	MO3172256	AUNT MARTHAS PRESCHOOL & DAY CARE	2
PETTIS	MO3190893	BUDGET HOST SUPER 7 MOTEL	2
PHELPS	MO3036151	GLADLO WATER & SEWER INC	2
PULASKI	MO3213303	28 SHOTS DIXON	2
PULASKI	MO4031631	RIDGE CREEK WATER COMPANY LLC	2
ST FRANCOIS	MO4036059	TERRE DU LAC	2
ST FRANCOIS	MO4061660	CLUBB VILLA SENIOR LIVING	8
ST FRANCOIS	MO4250576	FARMINGTON AMVETS POST 113	2
ST LOUIS	MO6283007	CASTLEWOOD TREATMENT CENTER	2
STONE	MO5010423	HURLEY PWS	2
STONE	MO5024590	STONE COUNTY PWSD 1	2
STONE	MO5031103	KINGDOM HEIGHTS	2
STONE	MO5191453	VILLAGE AT INDIAN POINT	2
TANEY	MO5048992	WALKER MHP	3
TANEY	MO5273121	LIFE CHRISTIAN CENTER	2

Appendix A: Health Based Compliance

III. Chemical MCL Violations

County	ID#	System Name	Chemical
BARTON	MO5010446	LAMAR PWS	TOTAL TRIHALOMETHANE (TTHM)
CASS	MO1010024	ARCHIE PWS	TOTAL TRIHALOMETHANE (TTHM)
CASS	MO1010301	GARDEN CITY PWS	TOTAL HALOACETIC ACIDS (HAA5)
CASS	MO1010301	GARDEN CITY PWS	TOTAL TRIHALOMETHANE (TTHM)
CLAY	MO1010546	MOSBY PWS	TOTAL TRIHALOMETHANE (TTHM)
COOPER	MO3010089	BOONVILLE PWS	TOTAL TRIHALOMETHANE (TTHM)
COOPER	MO3024170	COOPER COUNTY CONS PWSD #1	TOTAL HALOACETIC ACIDS (HAA5)
COOPER	MO3024170	COOPER COUNTY CONS PWSD #1	TOTAL TRIHALOMETHANE (TTHM)
GRUNDY	MO2010300	GALT PWS	TOTAL TRIHALOMETHANE (TTHM)
GRUNDY	MO2024237	GRUNDY COUNTY PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
HENRY	MO1021175	HENRY COUNTY PWSD 4	TOTAL TRIHALOMETHANE (TTHM)
HENRY	MO1021175	HENRY COUNTY PWSD 4	TOTAL HALOACETIC ACIDS (HAA5)
HOLT	MO1011182	BIG LAKE VILLAGE OF PWS	TOTAL TRIHALOMETHANE (TTHM)
HOWARD	MO2010566	NEW FRANKLIN PWS	TOTAL TRIHALOMETHANE (TTHM)
LAFAYETTE	MO1010254	EMMA PWS	TOTAL TRIHALOMETHANE (TTHM)
LINCOLN	MO6024340	LINCOLN COUNTY PWSD 1	FLUORIDE
LINCOLN	MO6030021	CHAMPION FARMS SUBDIVISION	FLUORIDE
MERCER	MO2010515	MERCER PWS	TOTAL TRIHALOMETHANE (TTHM)
MONROE	MO2010538	MONROE CITY PWS	TOTAL TRIHALOMETHANE (TTHM)
RALLS	MO2024499	RALLS COUNTY PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
SALINE	MO2010029	ARROW ROCK PWS	TOTAL TRIHALOMETHANE (TTHM)

Appendix A: Health Based Compliance

IV. Radiological MCL Violations

County	ID#	System Name	Chemical
LINCOLN	MO6030021	CHAMPION FARMS SUBDIVISION	GROSS ALPHA, EXCL. RADON & U
LINCOLN	MO6030021	CHAMPION FARMS SUBDIVISION	COMBINED RADIUM (-226 & -228)
LINCOLN	MO6031193	TARA VALLEY HOMEOWNERS ASSN	COMBINED RADIUM (-226 & -228)
MCDONALD	MO5010449	LANAGAN PWS	COMBINED RADIUM (-226 & -228)
OZARK	MO5024444	OZARK COUNTY PWS 1	GROSS ALPHA, EXCL. RADON & U
OZARK	MO5024444	OZARK COUNTY PWS 1	COMBINED RADIUM (-226 & -228)
RIPLEY	MO4024522	RIPLEY COUNTY PWS 1 WEST	GROSS ALPHA, EXCL. RADON & U
RIPLEY	MO4024522	RIPLEY COUNTY PWS 1 WEST	COMBINED RADIUM (-226 & -228)
ST CHARLES	MO6031488	STONE RIDGE MEADOWS	COMBINED RADIUM (-226 & -228)
ST FRANCOIS	MO4010456	LEADWOOD PWS	COMBINED RADIUM (-226 & -228)
ST FRANCOIS	MO4021451	PILOT KNOB RURAL WD 1 DOE RUN AREA	COMBINED RADIUM (-226 & -228)
WASHINGTON	MO4011123	MINERAL POINT PWS	COMBINED RADIUM (-226 & -228)

Appendix A: Health Based Compliance

V. Surface Water Violations

The following systems violated the Surface Water Rule, Treatment Technique for Turbidity or other surface water requirements in the months or annual period indicated.

County	ID#	System Name	Period	Violation
BATES	MO1010001	ADRIAN PWS	May	Combined Filter Effluent Turbidity
GREEN	MO5010754	SPRINGFIELD PWS	December	Routine Monitoring
ELINN	MO2010108	BROWNING PWS COLLEGE		Failure to Address
TANEY	MO5069033	OF THE OZARKS	November	Deficiency Combined Filter Effluent Turbidity

APPENDIX B

Chronic Major Monitoring Violators

The following systems had three or more major monitoring violations of the Revised Total Coliform Rule in 2020.

County	System Name	PWS ID #	Months
BARRY	MITCHELLS PLAZA	MO5210653	January, September, October
BENTON	HEAD WATERS MOTEL	MO3190902	March, May, July
BENTON	HIDDEN LAKE RESORT	MO3190264	February, June, September, November
BENTON	JESTERS HOUSE	MO1212836	January, March, April, June, August-October
BENTON	PUMP N MUNCH	MO1292877	February, May, July
BENTON	REEL & TRIGGER RESORT	MO3190260	March, May, August, September
CAMDEN	AROUND THE BEND BARBQ	MO3212580	January-April, September
CAMDEN	FISH & COMPANY	MO3212312	May, September, October
CEDAR	AIRPORT VILLAGE MHP	MO5238288	January, February, May – August, October - December
CEDAR	ORLEANS TRAIL RESORT	MO5190095	June, July, October, November
CEDAR	ORLEANS TRAIL RESTAURANT	MO5212752	June, July, October
COLE	17 EAGLE STOP	MO3292542	April, November, December
CRAWFORD	CUBA LAKES GOLF AND COUNTRY CLUB	MO3202538	August, October, December
CRAWFORD	RILEY SPENCE PROPERTIES NO 3	MO3212550	February, March, May
DALLAS	WILD OAKS CAMPGROUND	MO5242820	June, August, September
HICKORY	HICKORY RIDGE HWY 83 MARINA & RESORT	MO5210920	July, October, November
JEFFERSON	YAGNADI LLC	MO6292713	April, May, July
LAWRENCE	COTTERS COUNTRY JUNCTION	MO5258127	January, July, August
LINCOLN	CHAMPION FARMS SUBDIVISION	MO6030021	January, June - October
LINCOLN	SUNRISE RV PARK LLC	MO6243174	March, June, October

MILLER	CEDAR JUNCTION	MO5292911	January, February, April, June, July, October
MILLER	CYPRESS POINT APARTMENTS	MO5071632	July – October, December
MILLER	LLC		
	TOOTERS SALOON &	MO3212296	February, July, October
	STEAKHOUSE		
MISSISSIPPI	ANNISTON PWS	MO4010018	July, September, November, December
MONITEAU	CHURCH OF LATTER DAY SAINTS	MO2273113	January - April
	TIPTON BRANC		
MORGAN	10-42 BAR & QUE	MO5213274	March, April, June
MORGAN	THE VILLAS OF HARBOUR HILLS	MO5031482	March, April, July - November
NEWTON	UNDERCLIFF	MO5211145	March, May, July, September, November
OZARK	OUTPOST RANCH HOUSE	MO5212896	July, August, September
PERRY	BILLS PLACE	MO4218555	January – March, May – July, October
PETTIS	BUDGET INN	MO3190887	January, May, July - December
PHELPS	STATELY MANSION MOBILE VILLA	MO3048123	March, April, July
POLK	HOME COURT ADVANTAGE	MO5069073	March, May, August, November
REYNOLDS	LENNYS	MO4218522	June – August, October, November
ST CHARLES	LAKE CENTER MARINA	MO6233251	May - October
ST CHARLES	TWO BRANCH MARINA	MO6233270	May – July, October
ST CHARLES	WILDSCHUETZ BROTHERS FARM	MO6213205	May, June, September
ST CHARLES	WOODLAND MARINA	MO6233268	January, April, June, August – October, December
ST LOUIS	PARADISE VALLEY GOLF & COUNTRY CLUB	MO6200551	May -September
	STODDARD COUNTY PWSD 5	MO4024585	June, August - October
STONE	MARINA INN	MO5191971	January, October - December
STONE	TALL PINES CAMPGROUND	MO5241443	March – May, July, October - December
TANEY	AREA 71 BRANSON	MO5211978	June, August, October
TANEY	OZARK PARK ESTATES	MO5048271	May, June, September
TANEY	TWILITE HOME SITES	MO5031277	January – May, July, September, December
			January – March, June



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